

Substitute for Form 1449A/PTO (Modified)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

MAY 20 2002

Sheet

1

of

OFFICE

Attorney Docket Number

09/692 681

Application Number

09/692,681

Filing Date

October 18, 2000

First Named Inventor:

Hui Liu

Group Art Unit

2661

Examiner Name

Unknown

Sheet 1 of 1 Attorney Docket Number 005158.P003

~~DEMA~~ PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

Exam. Initial*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴ Kind Code ⁵ (if known)				
M M	B	GB	2 209 858	A	Motorola Limited	08-06-1997	
M M	C	WO	98/30047	A1	Array-Comm, Inc.	07-09-1998	
M M	D	WO	98/16077	A2	Teratech Corporation	04-16-1998	
M M	E	EP	/ 0 926 912	A2	CSELT Centro Studi e Lab.	06-30-1999	
M M	F	DE	/ 198 00 953	C1	Siemens AG	07-29-1999	

**Examiner
Signature**

Date Considered

4/10/2004

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¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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Substitute for Form 1449A/PTO (Modified)		<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	09/692,681
		Filing Date	October 18, 2000
		First Named Inventor:	Hui Liu
		Group Art Unit	2661
		Examiner Name	Unknown
Sheet	2	of	Attorney Docket Number
MAY 2 0 2002 PATENT AND TRADEMARK OFFICE OTHER ART INTELLIGENCE LITERATURE DOCUMENTS			
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	
MJM	G	Farsakh, C. et al., "Maximizing the SDMA Mobile Radio Capacity Increase by DOA Sensitive Channel Allocation", Wireless Personal Communications, Kluwer Academic Publishers, NL, vol. 11, no. 1, October 1999, pages 63-76, XP000835062, ISSN: 0929-6212	
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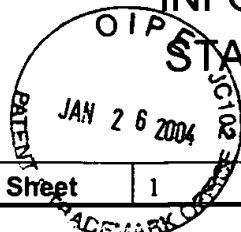
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**INFORMATION DISCLOSURE
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Complete if Known	
Application Number	09/692,681
Filing Date	October 18, 2000
First Named Inventor:	Hui Liu
Art Unit	2661
Examiner Name	Not Yet Assigned

Sheet	1	of	1	Attorney Docket Number	005158.P003
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
mjm	us-	5,734,967		3/31/1998	Kotzin et al.	
mjm	us-	5,886,988		3/23/1999	Yun et al.	
mjm	us-	5,887,245		3/23/1999	Lindroth et al.	
mjm	us-	5,933,421		8/3/1999	Alamouti, et al.	
mjm	us-	6,061,568		5/9/2000	Dent	
mjm	us-	6,108,374		8/22/2000	Balachandran et al.	
mjm	us-	6,226,320 B1		5/1/2001	Hakkinen et al.	
mjm	us-	6,366,195 B1		4/2/2002	Harel et al.	
mjm	us-	6,477,158 B2		11/5/2002	Take	
mjm	us-	2003/0067890 A1		4/10/2003	Goel et al.	
mjm	us-	2003/0169824 A1		9/11/2003	Chayat	
	us-					
	us-					
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
mjm	JP 06029922		2/4/1994	Mitsuru et al.		

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	4/10/2004

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

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Sheet 1 of 3

U.S. PATENT DOCUMENTS

Examiner Initials *	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Filing Date if Appropriate
	Number				
mjm	6,067,290		Paulraj et al.	5/23/2000	
mjm	6,064,694		Clark et al.	5/16/2000	
MJM	6,052,594		Chuang et al.	4/18/2000	
MJM	6,005,876		Cimini, Jr. et al.	12/21/1999	
mjm	5,973,642		Li et al.	10/26/1999	
mjm	5,956,642		Larsson et al.	9/21/1999	
MJM	6,041,237		Farsakh	3/21/2000	
mjm	6,064,692		Chow	5/16/2000	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation? Yes/No
	Office or Country	Number	Date			

OTHER DOCUMENTS

Examiner Initials *	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published (if known).	Translation? Yes/No
MJM	BENDER et al., CDMA/HDR: A Bandwidth-Efficient High Speed Wireless Data Service for	
MJM	Nomadic Users, IEEE Communications Magazine, July 2000, pp. 70-87.	
MJM	FRULLONE et al., PRMA Performance in Cellular Environments with Self-Adaptive Channel	
MJM	Allocation Strategies, IEEE Transactions on Vehicular Technology, November 1996, pp.657-665	
MJM	Vol. 45 No. 4.	

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STATEMENT BY APPLICANT**

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Sheet 1

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Complete if Known

09/692,681

12/12/2020

10/18/2

Hui Liu

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	Office or Country	Number	Date			

OTHER DOCUMENTS

Examiner Initials *	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published (if known).	Translation? Yes/No
mjm	XU, GUANGHAN and LI, SAN-QI, Throughput Multiplication of Wireless Lans for Multimedia Services: SDMA Protocol Design, 1994 IEEE, pp. 1326-1332.	
mjm	WARD, JAMES and COMPTON, R. TED, JR., High Throughput Slotted ALOHA Packet Radio Networks with Adaptive Arrays, IEEE Transactions on Communications, March 1993, pp. 460-470,	
mjm	Vol. 41, No. 3.	

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4/10/2008

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		Filing Date	10/18/2000
		First Named Inventor	Hui Liu
		Group Art Unit	2661
		Examiner Name	Not yet assigned
Sheet	3	of	3
Attorney Docket Number			

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation? Yes/No
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<i>M M</i>	TSOULOS, G.V., Smart antennas for mobile communication systems: benefits and challenges,	
<i>M M</i>	Electronics & Communication Engineering Journal, April 1999, pp. 84-94.	
<i>M M</i>	SHAD et al., Indoor SDMA Capacity Using a Smart Antenna Basestation, 1997 IEEE, pp. 868-872.	
<i>M M</i>	FARSAKH, CHRISTOF and NOSSEK, JOSEF A., On the Mobile Radio Capacity Increase	
<i>M M</i>	Through SDMA, no date (after 1997).	

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